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L2    ANSWER 246 OF 267  CA  COPYRIGHT 2004 ACS on STN
AN    71:82598  CA
ED    Entered STN:  12 May 1984
TI    Treatment of cellulose fibers with cationic
      polyethylene dispersions
PA    Badische Anilin- & Soda-Fabrik AG
SO    Fr., 4 pp.
      CODEN: FRXXAK
DT    Patent
LA    French
IC    D06M
CC    39 (Textiles)
FAN.CNT 1
        PATENT NO.           KIND    DATE           APPLICATION NO.         DATE
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PI   FR 1557348                      19690214       FR
     DE 1594933                                     DE
PRAI DE                              19670317
CLASS
 PATENT NO.      CLASS   PATENT FAMILY CLASSIFICATION CODES
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 FR 1557348      IC      D06M
AB   Cellulosic materials are impregnated with an aq. bath contg. .gtoreq.1
     low-mol.-wt. compd. contg. N-hydroxymethyl and (or) N-alkoxymethyl groups,
     .gtoreq.1 acetalization catalyst, and a primary cationic polyethylene
     dispersion.  Use of the primary cationic polyethylene dispersion results
     in an overall improvement in tech. properties, esp. the dry crease angle,
     wet crease angle, tear resistance, and Monsanto index, and allows products
     sensitive to anionic surfactants, e.g. waterproofing paraffin
     emulsions, to be added.  Thus, cotton fabric was impregnated with 105
     g./m.2 aq. bath contg. N,N'-bis(hydroxymethyl)hexahydropyrimidin-2-one
     6.25, MgCl.6H2O 2, a 7:1 ethylene oxideisooctylphenol addn. product 0.2,
     and a 30% cationic polyethylene dispersion 5%.  A similar fabric
     was impregnated with a similar aq. bath contg. 5% of a primary anionic
     polyethylene dispersion instead of the cationic dispersion.  The 2 samples
     were squeezed to 80% impregnation, dried, and heated at 155.degree. for 5
     min. to give finished samples having dry crease angles in the warp of
     269.degree. and 239.degree., in the fill of 253.degree. and 230.degree.,
     wet crease angles in the in the warp 279.degree. and 271.degree., in the
     fill 257.degree. and 255.degree., Monsanto indexes 5 and 4-5, and
     Elmendorf tear strengths 688 g. and 624 g., resp. N,N'-Bis(hydroxymethyl)-
     4,5-dihydroxyimidazolidin-2-one was also used.
ST   polyethylene cellulose fibers; cellulose
     fibers polyethylene; cationic polyethylene dispersions; cotton
     fabric impregnation; creaseproofing cotton fabric
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